

HPS Trailer Page
for
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Summary

Document	Pages	Printed	Missed
US006255059	68	68	0
Total (1)	68	68	0

Products and Services

Products

Special Note on Year 2000 Compliance

Gene Profile AssaysTM

Gene profiling is the process whereby the status of gene expression in a given cell line is assessed at increasing concentrations of exposure to a test substance (such as a pharmaceutical). Xenometrix Gene Profile AssaysTM (GPA) assess gene expression through the use of cell-based assays and specific reporter constructs. These constructs report the activity of certain genes in a quantifiable process, determined at the conclusion of the exposure period. Through the assessment of the activity of key genes, information on the biological activity of the test compound can be gathered, and by including genes relevant to safety or efficacy concerns in the assay, the assay itself can be focused on these critical areas.

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- GPA Bacterial Cells
- GPA in Human Liver Cells
- GPA in Human Colon Cells

Ames IITM Mutagenicity Assays (Ames IITM Assay Manual and software are available on Web now !)

The Ames assay is one of the most commonly performed safety assays in the world, serving the industrial and academic communities and forming an important component of many regulatory submissions. However, with the increasing number of chemicals flowing through the drug development process, and the increasing demand for early indications of mutation and potential carcinogenesis, the number of Ames screening assays required is growing year by year. The traditional full-format Ames test cannot currently serve this market, since it requires too much time, labor and chemical to serve as a screening tool. The new Ames II assay, available exclusively through Xenometrix, offers a higher speed format with new strains, colorimetry, automated plating and plate reading. The assay is fast and efficient, shows good correlation with the traditional assay (See Ames II validation results), and was developed in the Ames lab at U.C. Berkeley. It is not, however, currently accepted by regulatory agencies in lieu of the traditional assay.

- AMES II Manual System for Easy Benchtop Screening
- AMES II Automated System for High Throughput
- AMES II Automated System for Mutational Spectra

Services



Xenometrix services include:

- Client Research Laboratory

-Xenometrix has, at its Boulder facility, a fully staffed and equipped laboratory for the purpose of performing optimal assay and reporting work for clients. The laboratory will accept chemicals, perform assays, interpret data and produce detailed reports.

- Training program

-If you would like to learn how to perform Xenometrix assays in your own facility, we have a training laboratory in our Boulder facility, including a classroom and wet laboratory.

- Bioinformatics Database

-Xenometrix is constructing a database of the Gene Profiles of public domain pharmaceuticals. The company recently hired a new Head of Bioinformatics, instated a database testing team and is developing an Oracle-based bioinformatics resource.

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Science & Technology



Research and Development (R&D) provides marketable claims, interpretations and models of gene activation profiles. Furthermore, R&D designs cell-based assays to measure gene activation and automates these assays for high throughput screening.

These goals are executed by the coordination of three teams, each of which provides a distinct strength to the products and services of Xenometrix. The Database team provides the scientific criteria for and supports the other two teams, Gene Profiling and Molecular Markers.

The Bioinformatics System

GENE PROFILING TEAM

The Gene Profiling team focuses on optimization and automation of our existing cell-based Gene Profile Assays, as well as exploring future directions in which to take these assays. This team is constantly on the lookout for ways to make the Gene Profile Assays faster, more sensitive, and more quantitative.

MOLECULAR MARKERS TEAM

The Molecular Markers team has the exciting task of searching for new genes with relevance to drug discovery which can then be added to the Gene Profile Assays. Following identification of any new gene to evaluate, this team then isolates and characterizes the promoter region and generates a promoter-reporter fusion construct for use in one of the cell-based Gene Profile Assays.



Scientific Research Publications

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